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| APPLICATION NO.                                | FILING DATE    | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.       | CONFIRMATION NO. |
|--|----------------|----------------------|---------------------------|------------------|
| 10/057,502                                     | 01/25/2002     | Leon Chia-Liang Lin  | 01 P 15968 US (INFI 2322) | 4351             |
| 7812 7   | 590 04/20/2005 |                      | EXAMI                     | NER              |
| SMITH-HILL AND BEDELL<br>12670 N W BARNES ROAD |                |                      | WONG, LINDA               |                  |
| SUITE 104                                      | au (Do RO) D   |                      | ART UNIT                  | PAPER NUMBER     |
| PORTLAND,                                      | OR 97229       |                      | 2634                      |                  |

DATE MAILED: 04/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.



|   | Application No.  | Applicant(s)   |  |  |  |
|---|--|--|--|--|--|
|   | 10/057,502   | LIN ET AL.   |  |  |  |
| Office Action Summary   | Examiner   | Art Unit   |  |  |  |
|   | Linda Wong   | 2634   |  |  |  |
| The MAILING DATE of this communication app<br>Period for Reply  | ears on the cover sheet with the c   | orrespondence address  |  |  |  |
| A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).         | 36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI | nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133). |  |  |  |
| Status  |  |  |  |  |  |
| 1) Responsive to communication(s) filed on 25 Ja  | nuary 2002.  |  |  |  |  |
| 2a) ☐ This action is <b>FINAL</b> . 2b) ☒ This  | ☐ This action is <b>FINAL</b> . 2b)⊠ This action is non-final.   |  |  |  |  |
| 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is  |  |  |  |  |  |
| closed in accordance with the practice under E  | x parte Quayle, 1935 C.D. 11, 45   | i3 O.G. 213.   |  |  |  |
| Disposition of Claims   |  |  |  |  |  |
| 4) ☐ Claim(s) 1-37 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 1-37 are subject to restriction and/or expressions.  | vn from consideration.   |  |  |  |  |
| Application Papers  |  |  |  |  |  |
| 9) ☐ The specification is objected to by the Examiner 10) ☑ The drawing(s) filed on 25 January 2002 is/are: Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction 11) ☐ The oath or declaration is objected to by the Ex   | a)⊠ accepted or b)⊡ objected<br>drawing(s) be held in abeyance. See<br>ion is required if the drawing(s) is obj  | e 37 CFR 1.85(a).<br>ected to. See 37 CFR 1.121(d).  |  |  |  |
| Priority under 35 U.S.C. § 119  |  |  |  |  |  |
| <ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul> |  |  |  |  |  |
| Attachment(s)   |  |  |  |  |  |
| 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date  S. Patent and Trademark Office.   | 4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:   |  |  |  |  |

## **DETAILED ACTION**

## Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35. U.S.C. 121:
  - A. Claims 1-14, 19-33 recites a method for processing a differential first pulse amplitude modulated (PAM) signal, which falls into class 375, subclass 353.
  - B. Claims 15-18, 34-37 recites an apparatus for controlling a gain of a digital signal processor, which falls into class 375, subclass 345.
- 2. The claim groups A and B involve totally different concepts, which would involve a search of at least two different classifications.
- 3. Because these inventions are distinct for the reason provided above and the search required for Group A is not required for Group B, restriction for examination purposes as indicated is proper.

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Linda Wong whose telephone number is 571-272-6044. The examiner can normally be reached on 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on (571) 272-3056. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/057,502

Art Unit: 2634

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LW

STEPHEN CHIN
SUPERVISORY PATENT EXAMINE:

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